

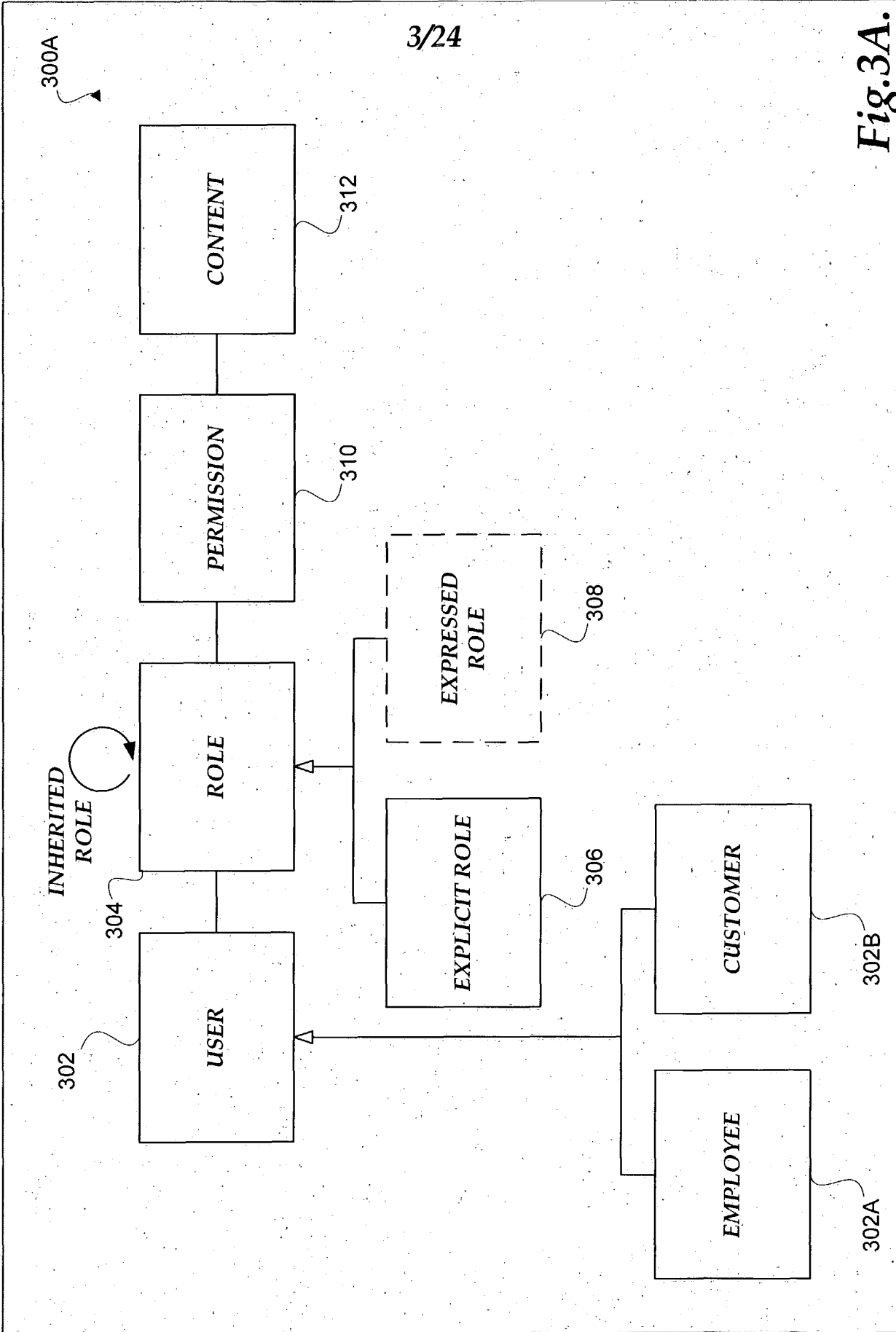
Fig.2.

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Fig.3A.

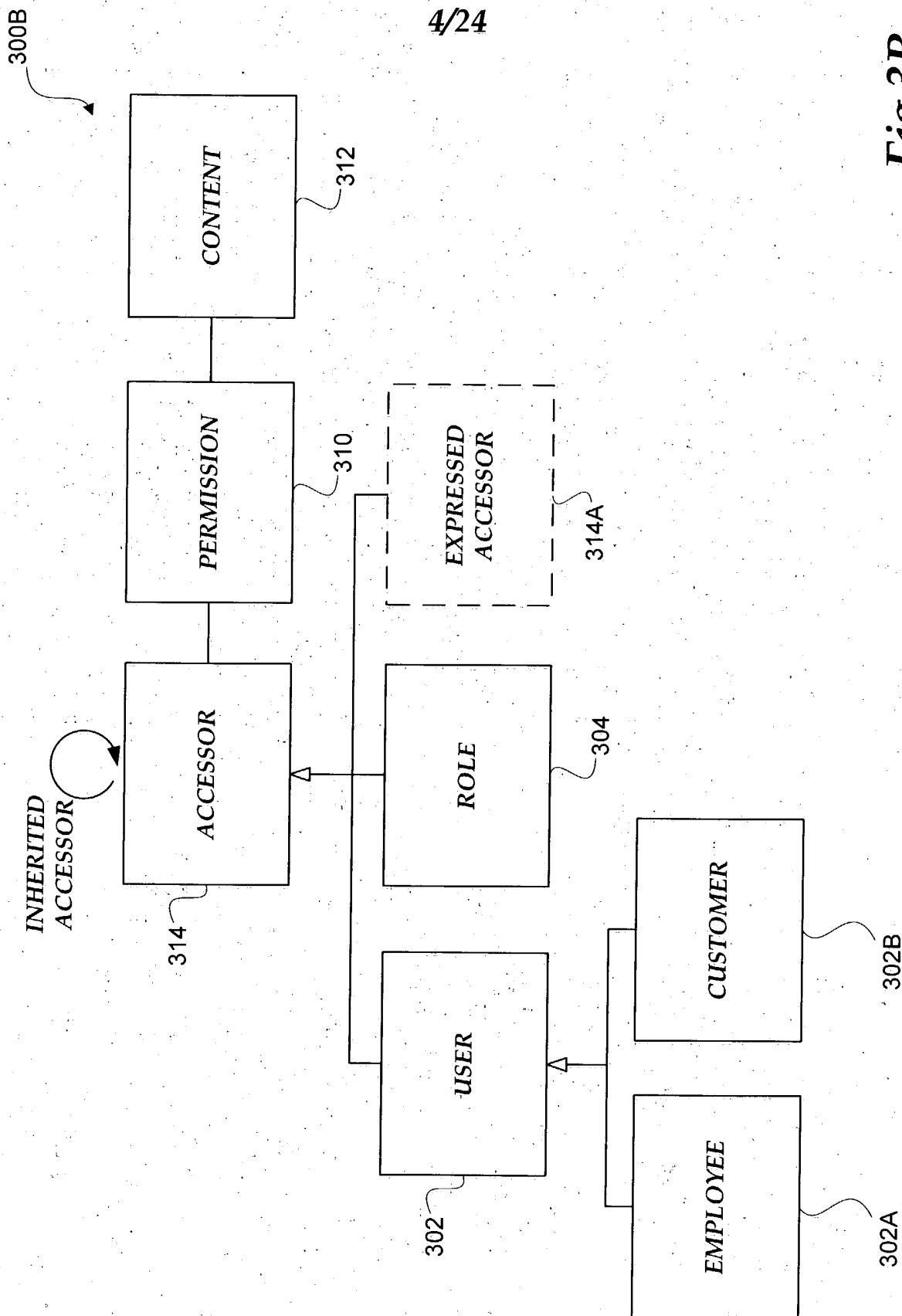
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Fig.3B.

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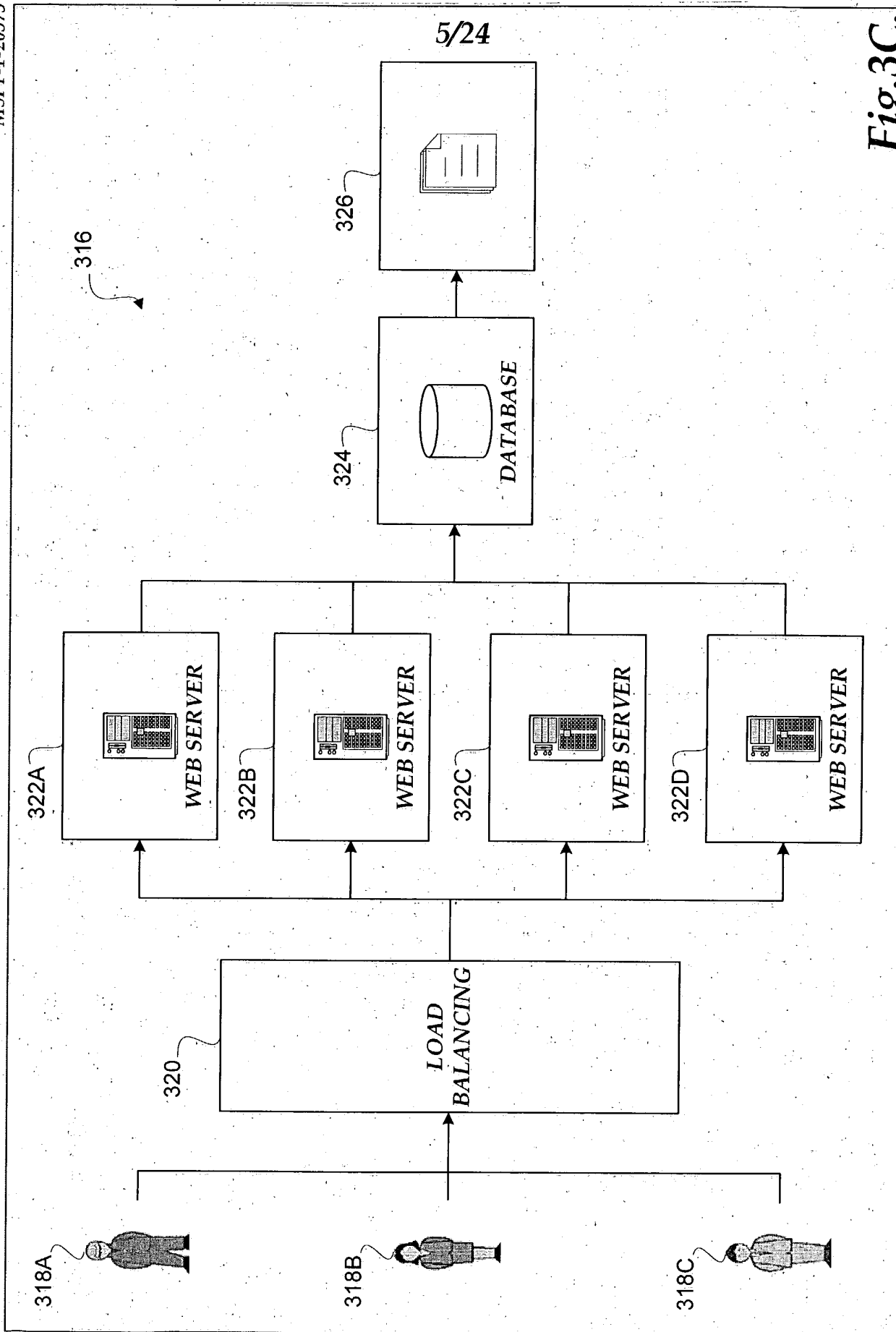


Fig.3C.

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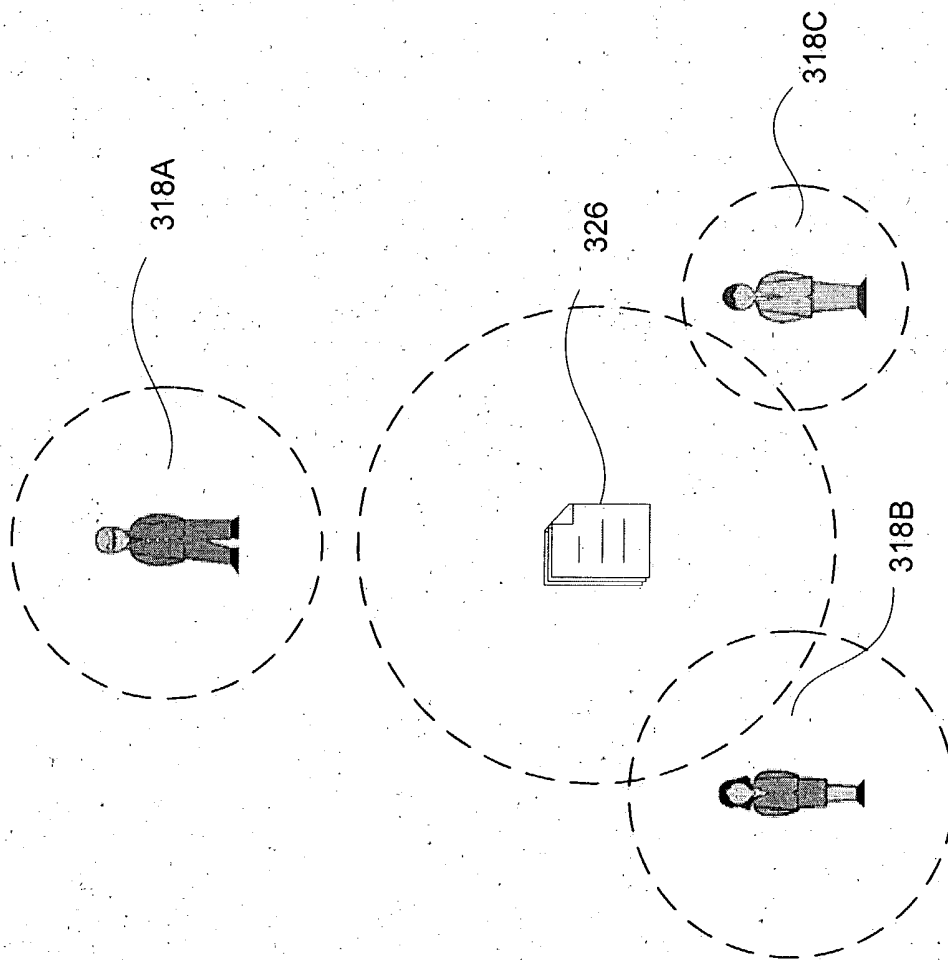


Fig.3D.

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330

GRAMMAR OF A SECURITY LANGUAGE

SCOPE ::= EXTENT [AND | OR EXTENT ...] 330A

EXTENT ::= [NOT] DIMENSION ALL | ANY [NOT] (MEMBERS) 330B

MEMBERS ::= MEMBER | LEVEL [[-] MEMBER | LEVEL ...] 330C

Fig. 3E.

332

LICENSING SECURITY SPACE

SALES LOCATION	LICENSING PROGRAM	CUSTOMER TYPE	AGREEMENT TYPE
UNITED STATES	SELECTION 4	DIRECT	CORPORATION
CHINA	SELECTION 5	OEM	ACADEMIC
GERMANY	OPEN	VAR	GOVERNMENT
RUSSIA	SCHOOL	ISV	

332RA 332RB 332RC 332RD 332RE

332CA 332CB 332CC 332CD

Fig. 3F.

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SECURITY SPACE EXPRESSED IN A TAG-BASED LANGUAGE

334

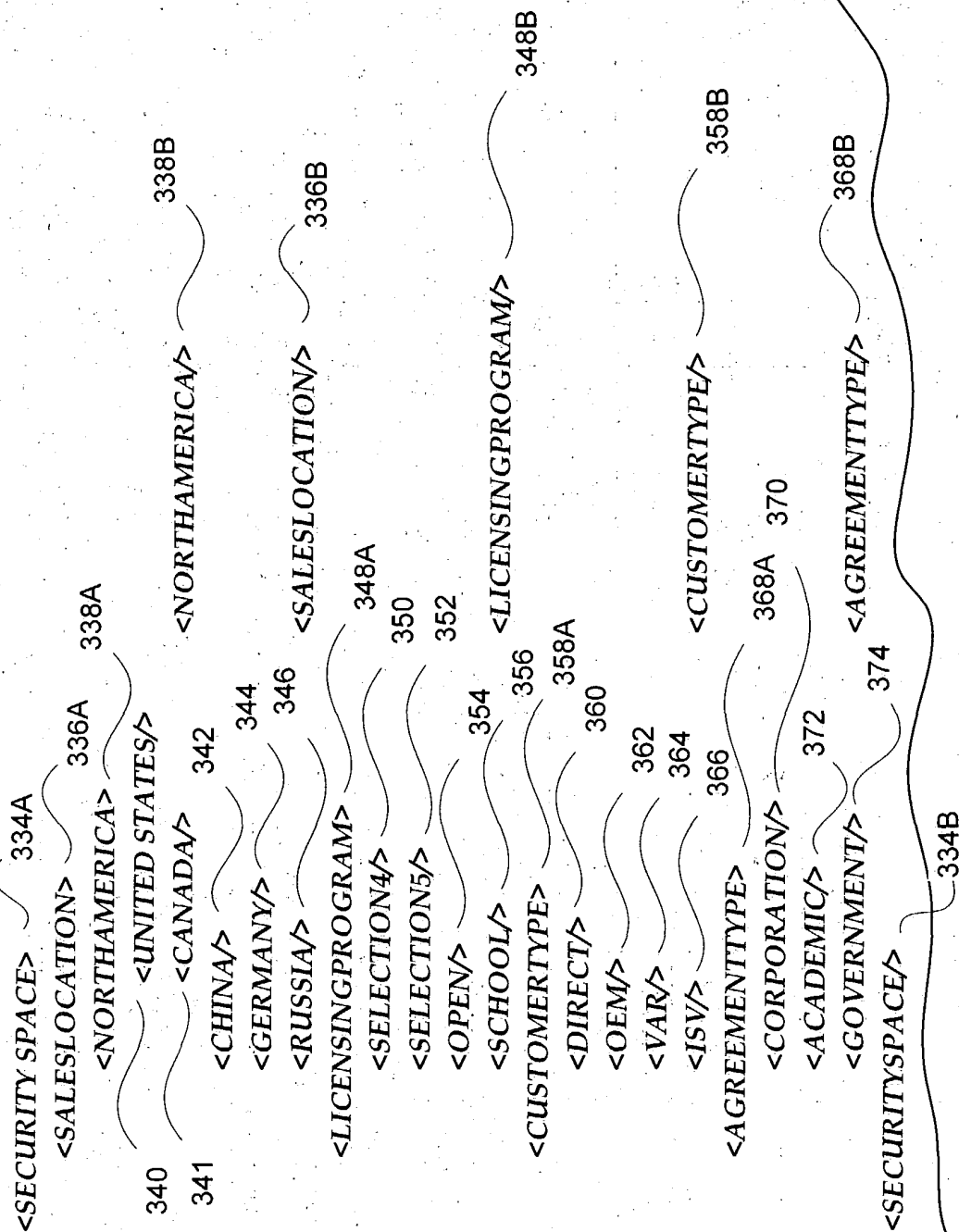


Fig.3G.

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Fig.3H.

376

ACCESS SCOPE OF A PIECE OF CONTENT

SALESLOCATION ANY (UNITED STATES, CHINA) AND CUSTOMERTYPE ANY (DIRECT, OEM)
SALESLOCATION ANY (GERMANY, RUSSIA) AND CUSTOMERTYPE ANY (DIRECT, VAR)

376A

376B

Fig.3I.

378

ACCESS SCOPE OF AN ACCESSOR DENYING ACCESS

SALESLOCATION ALL (UNITED STATES, RUSSIA) AND CUSTOMERTYPE ANY (VAR)

378A

Fig.3J.

380

ACCESS SCOPE OF AN ACCESSOR ALLOWING ACCESS

SALESLOCATION ALL (GERMANY, RUSSIA) AND CUSTOMERTYPE ANY (VAR)

380A

Fig.3K.

382

ACCESS SCOPE OF AN ACCESSOR ALLOWING ACCESS

SALESLOCATION ALL (UNITED STATES, CHINA, RUSSIA) AND CUSTOMERTYPE ANY (DIRECT)

382A

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384

390

386

318A

318B

318C

ACCESSOR
SENTENCE
COLLECTOR

ACCESSOR
SENTENCE(S)

SENTENCE
COMPILER

392

ACCESS
GRANTED OR
DENIED

ACCESS
EVALUATOR

396

CONTENT
SENTENCE
COLLECTOR

394

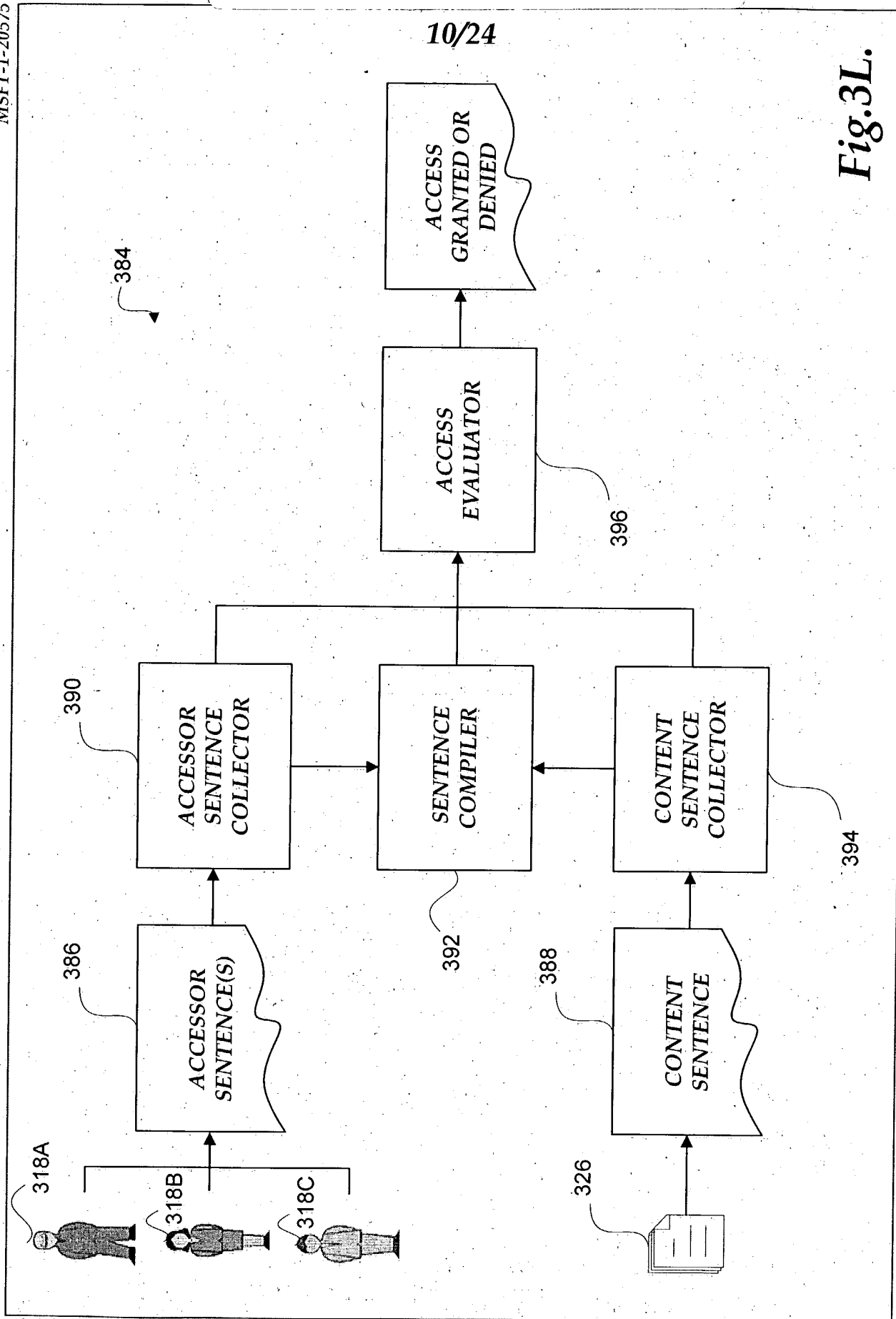
388

326

CONTENT
SENTENCE

Fig.3L.

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Fig.3M.

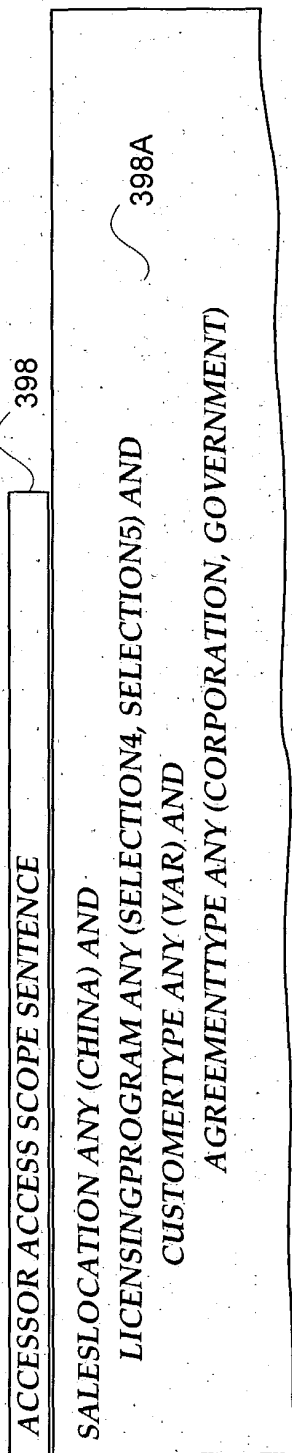


Fig.3N.

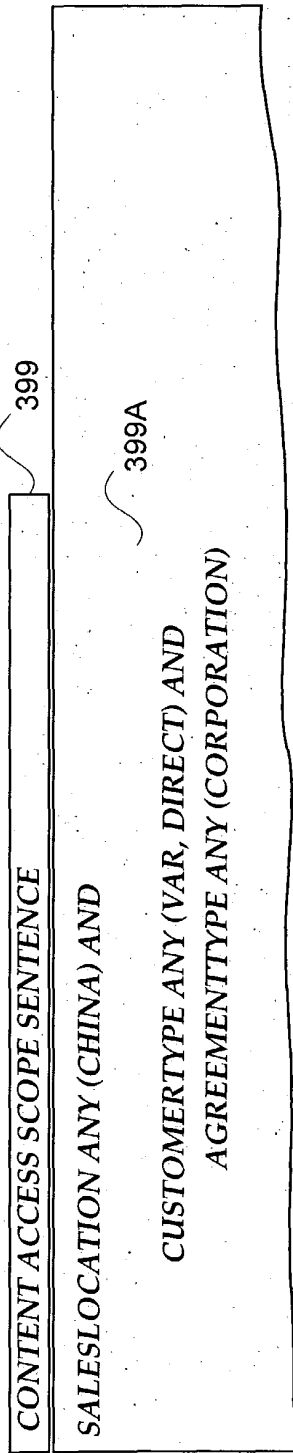


Fig.3O.

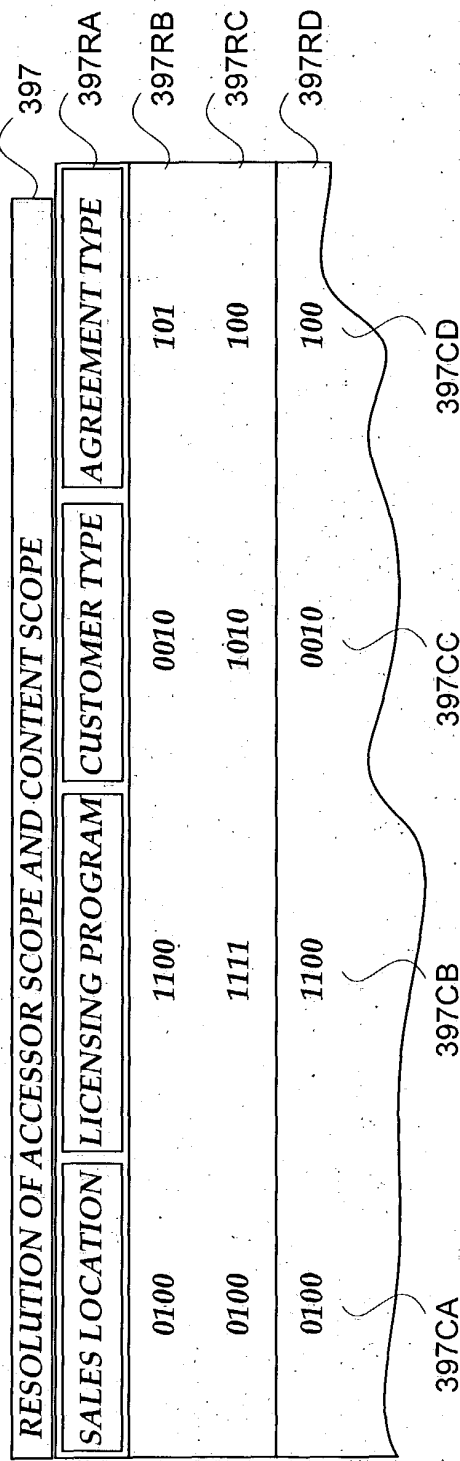


Fig.3P.

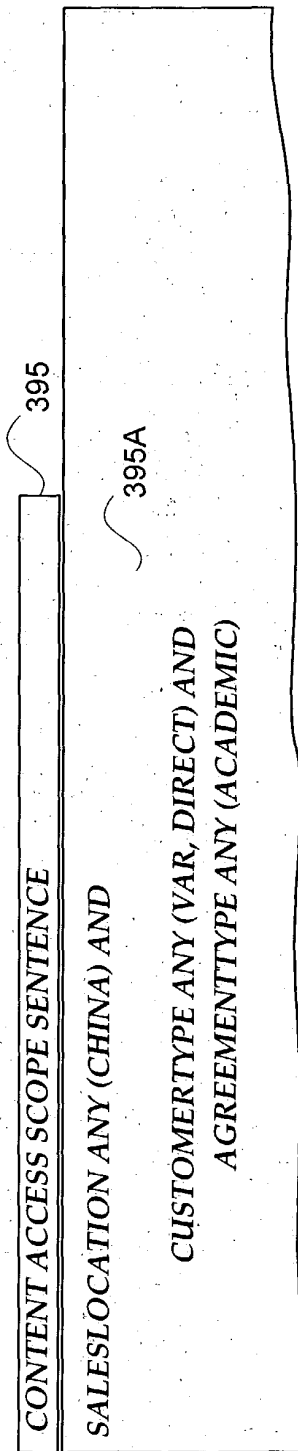
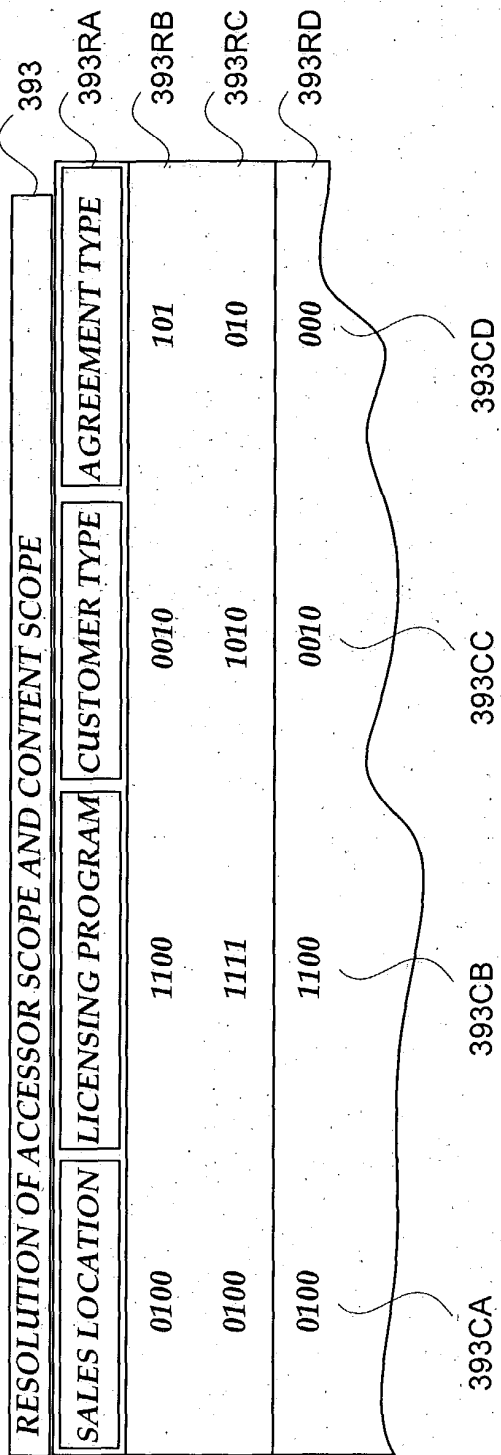
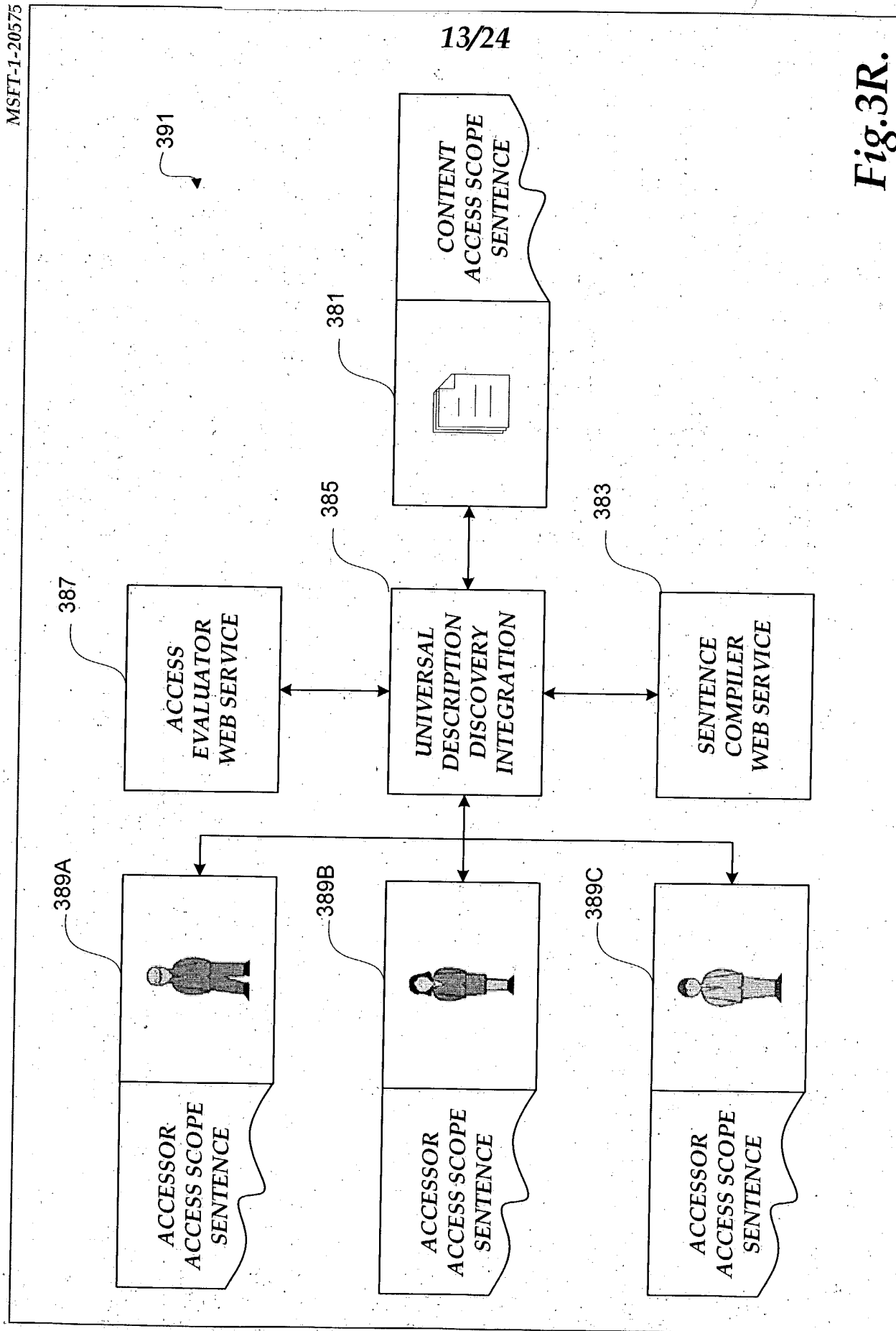


Fig.3Q.



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400

**START A METHOD FOR EVALUATING THE SCOPE
OF CONTENT ACCESS REQUESTS BY USERS**

A

**THE METHOD CREATES ACCESS SCOPES FOR
CONTENTS (SEE FIGS. 4B-4E)**

404

B

C

**THE METHOD CREATES USERS OR ROLES AND
CAUSES USERS OR ROLES TO INHERIT FROM
ACCESSORS SO AS TO GAIN THE CAPABILITY
OF ACCESSING CONTENTS (SEE FIGS. 4F-4G)**

406

D

E

**THE METHOD GRANTS OR DENIES AN ACCESS
REQUEST BY EVALUATING ACCESS SCOPE
SENTENCES (SEE FIGS. 4H-4K)**

408

F

FINISH

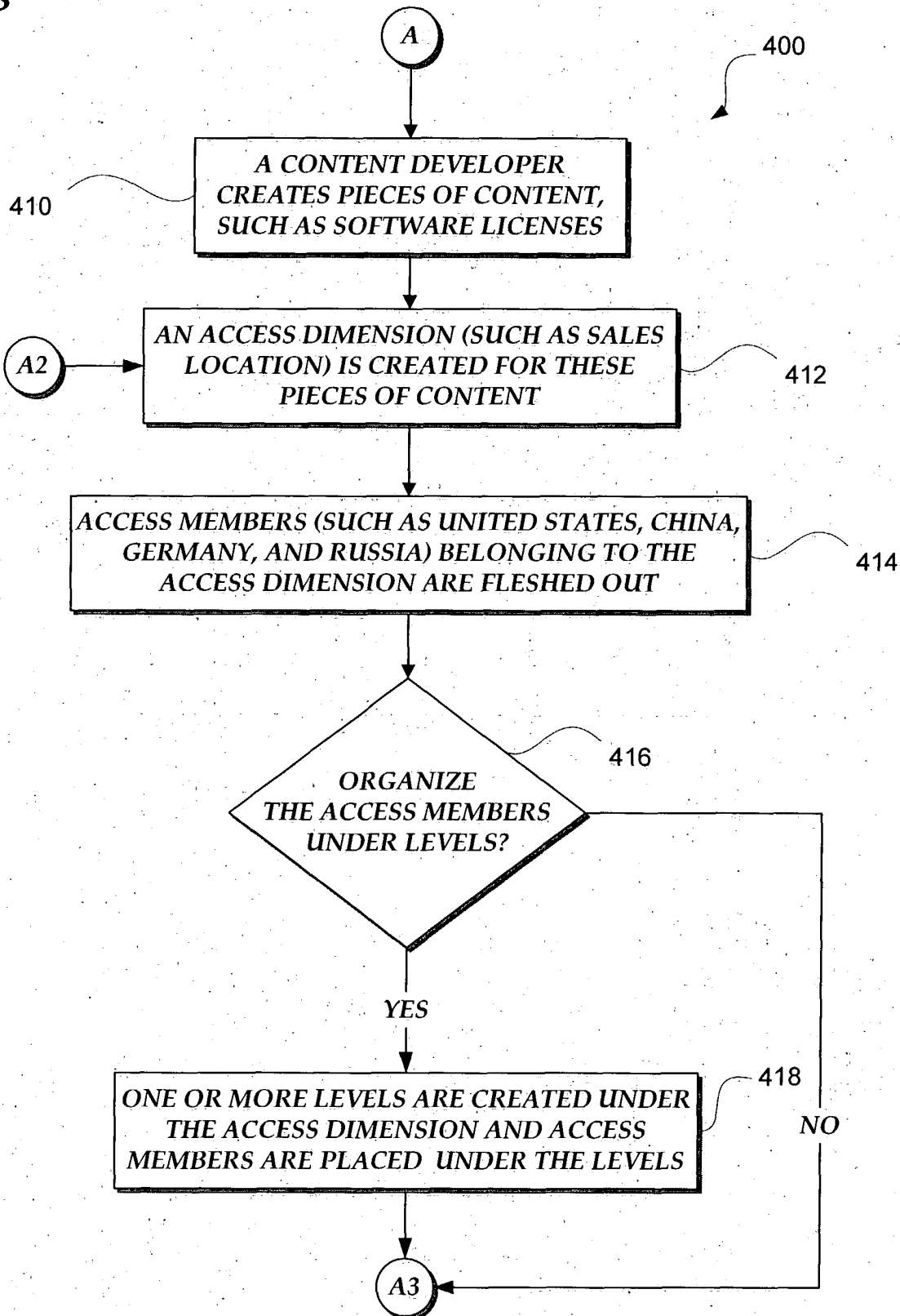
Fig.4A.

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Fig.4B.

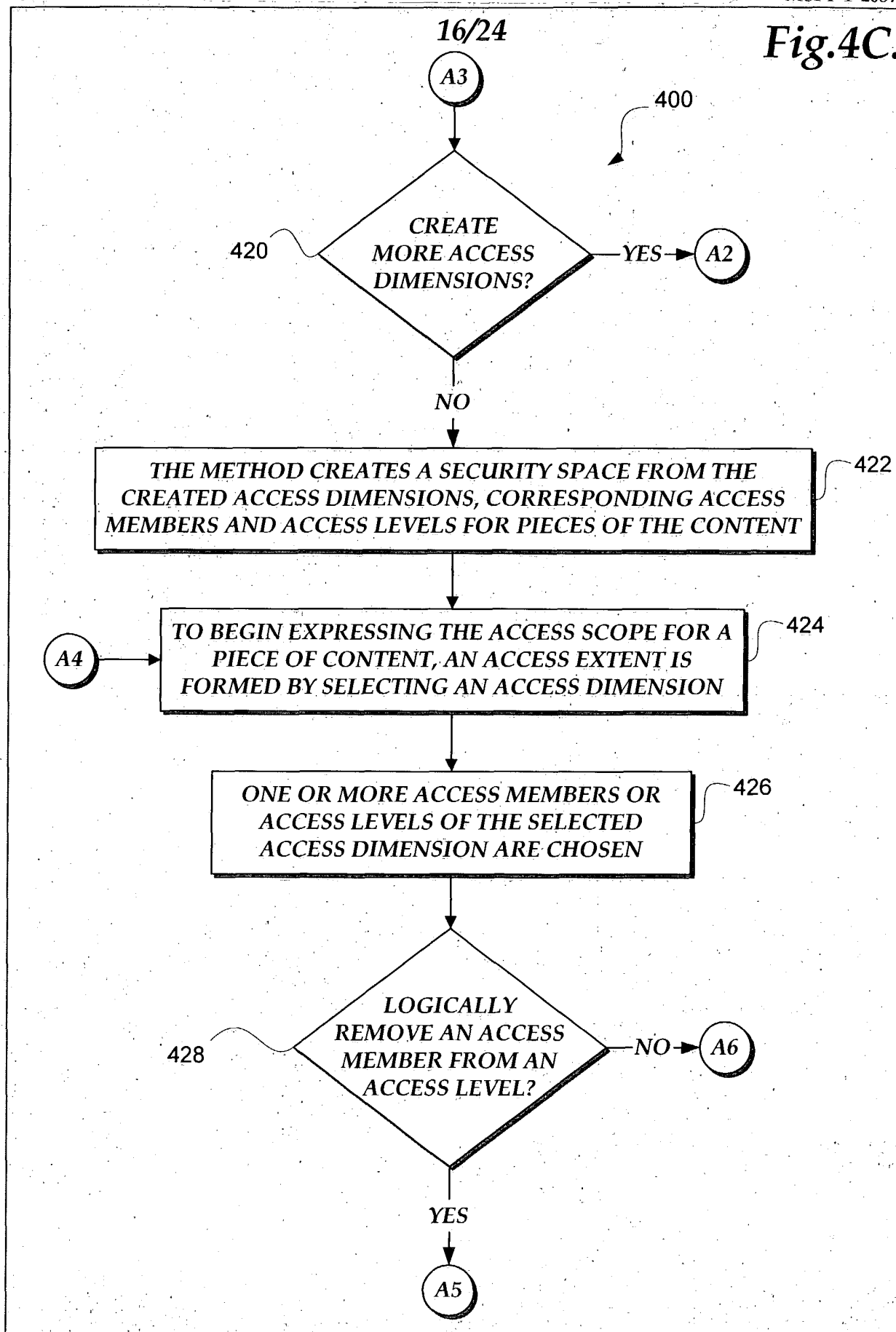
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Fig.4C.



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Fig.4D.

A5

400

THE METHOD TEXTUALLY INSERTS A
MINUS SIGN "-" IN FRONT OF AN
ACCESS MEMBER

430

A6

THE METHOD
FORMS A LIST OF
ACCESS MEMBERS

432

434

IS THE LIST OF
ACCESS MEMBERS
THE NOT SET?

YES

THE METHOD TEXTUALLY INSERTS
THE WORD "NOT" IN FRONT OF THE
LIST OF ACCESS MEMBERS

436

NO

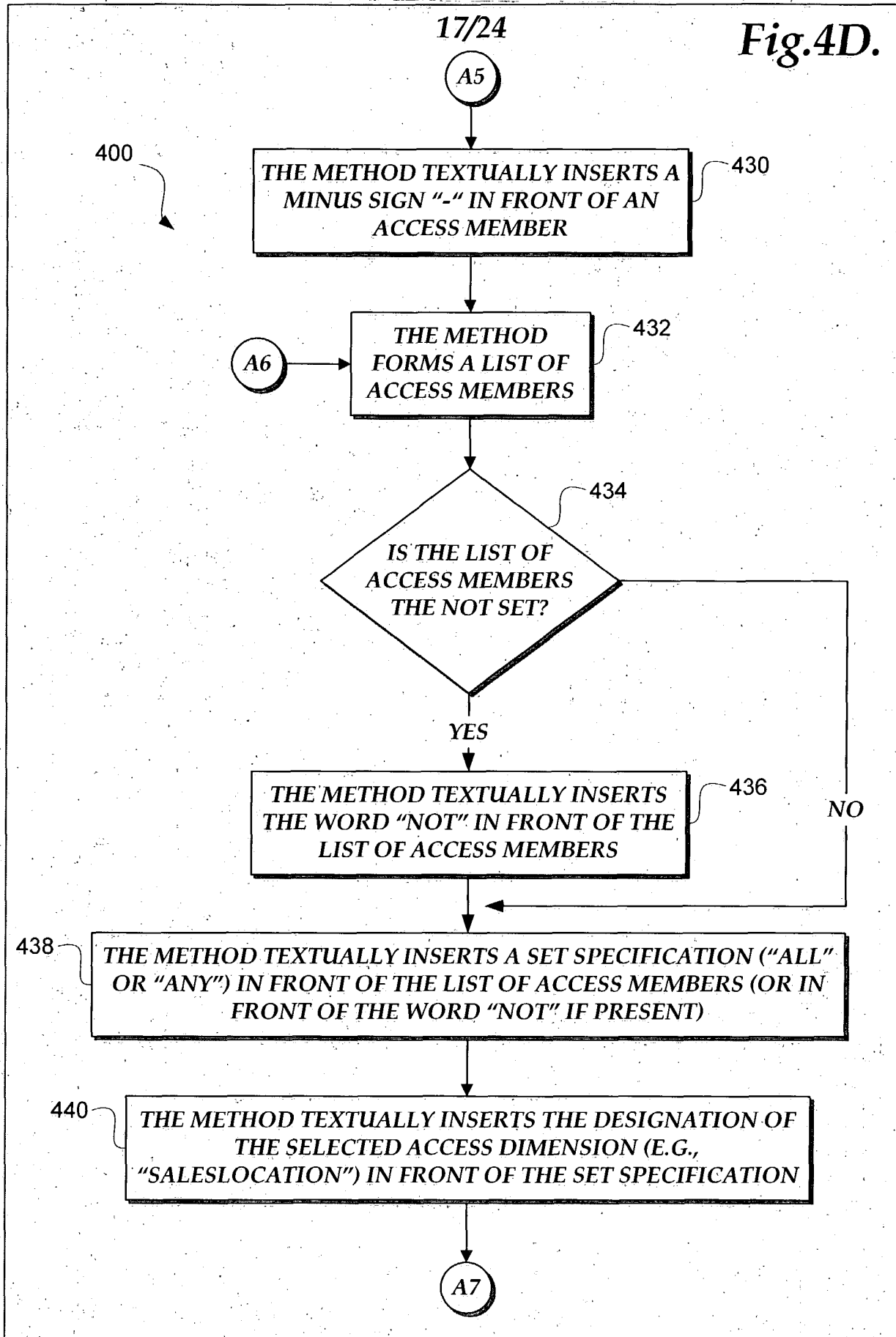
438

THE METHOD TEXTUALLY INSERTS A SET SPECIFICATION ("ALL"
OR "ANY") IN FRONT OF THE LIST OF ACCESS MEMBERS (OR IN
FRONT OF THE WORD "NOT" IF PRESENT)

440

THE METHOD TEXTUALLY INSERTS THE DESIGNATION OF
THE SELECTED ACCESS DIMENSION (E.G.,
"SALESLOCATION") IN FRONT OF THE SET SPECIFICATION

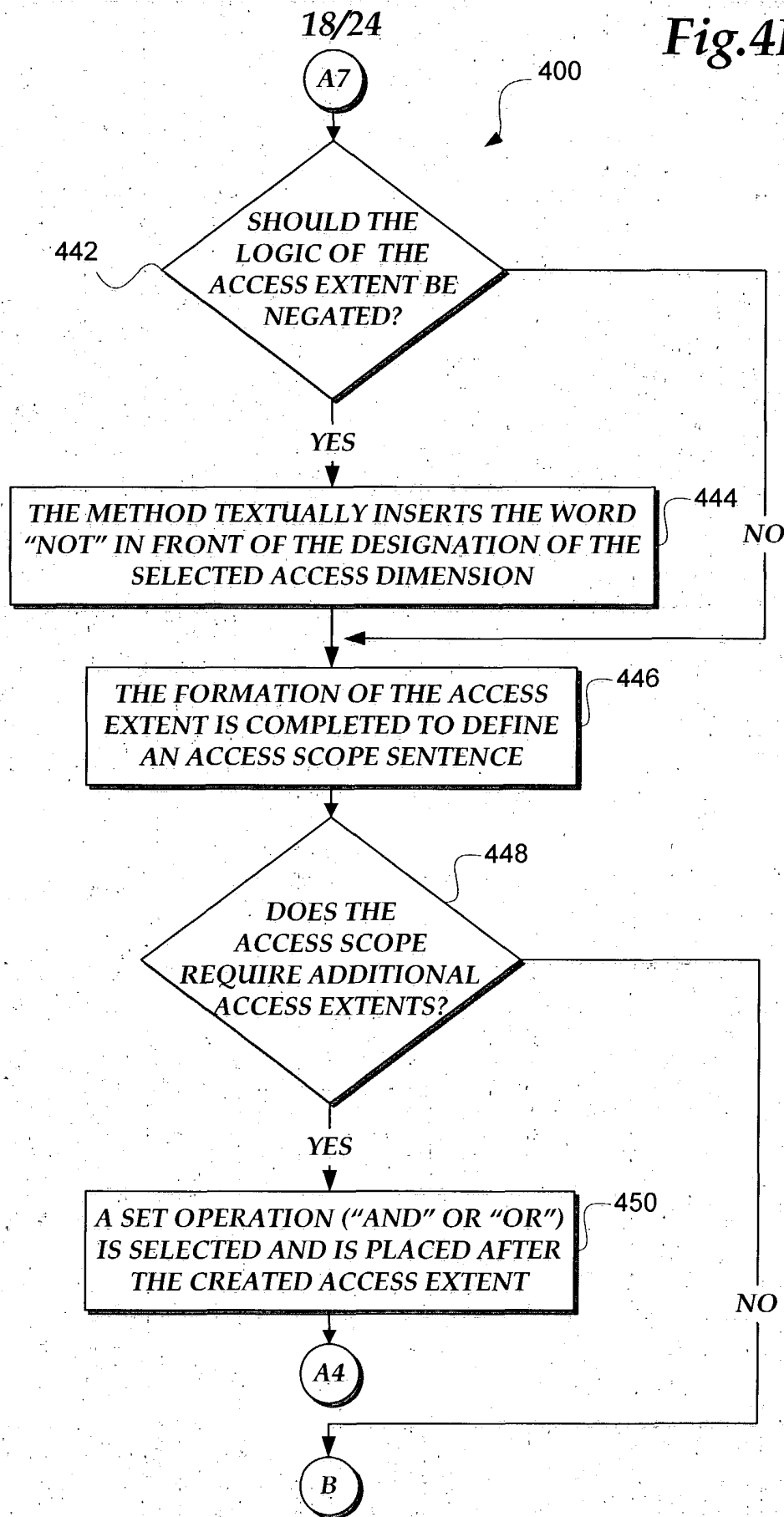
A7



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Fig.4E.

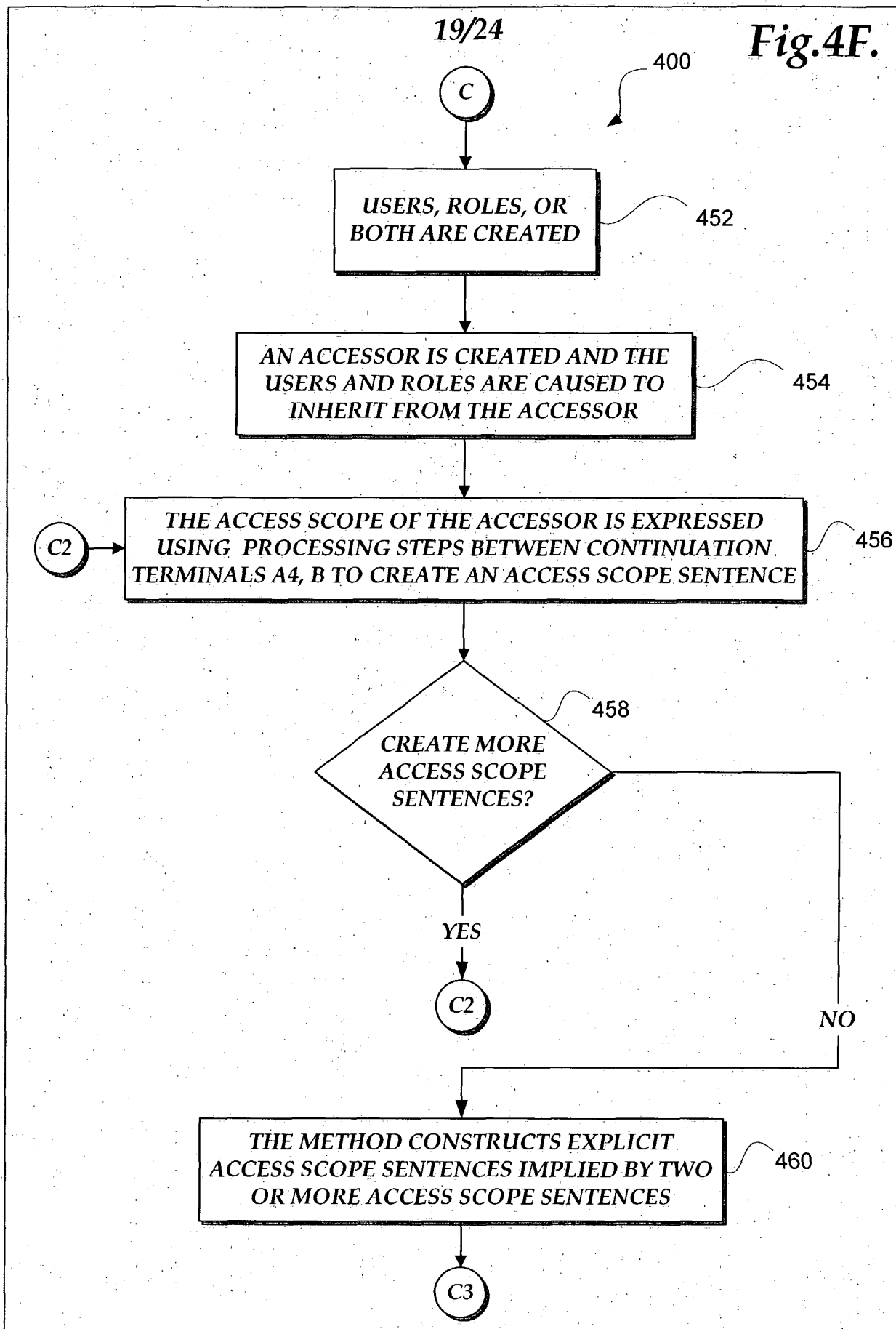


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Fig.4F.

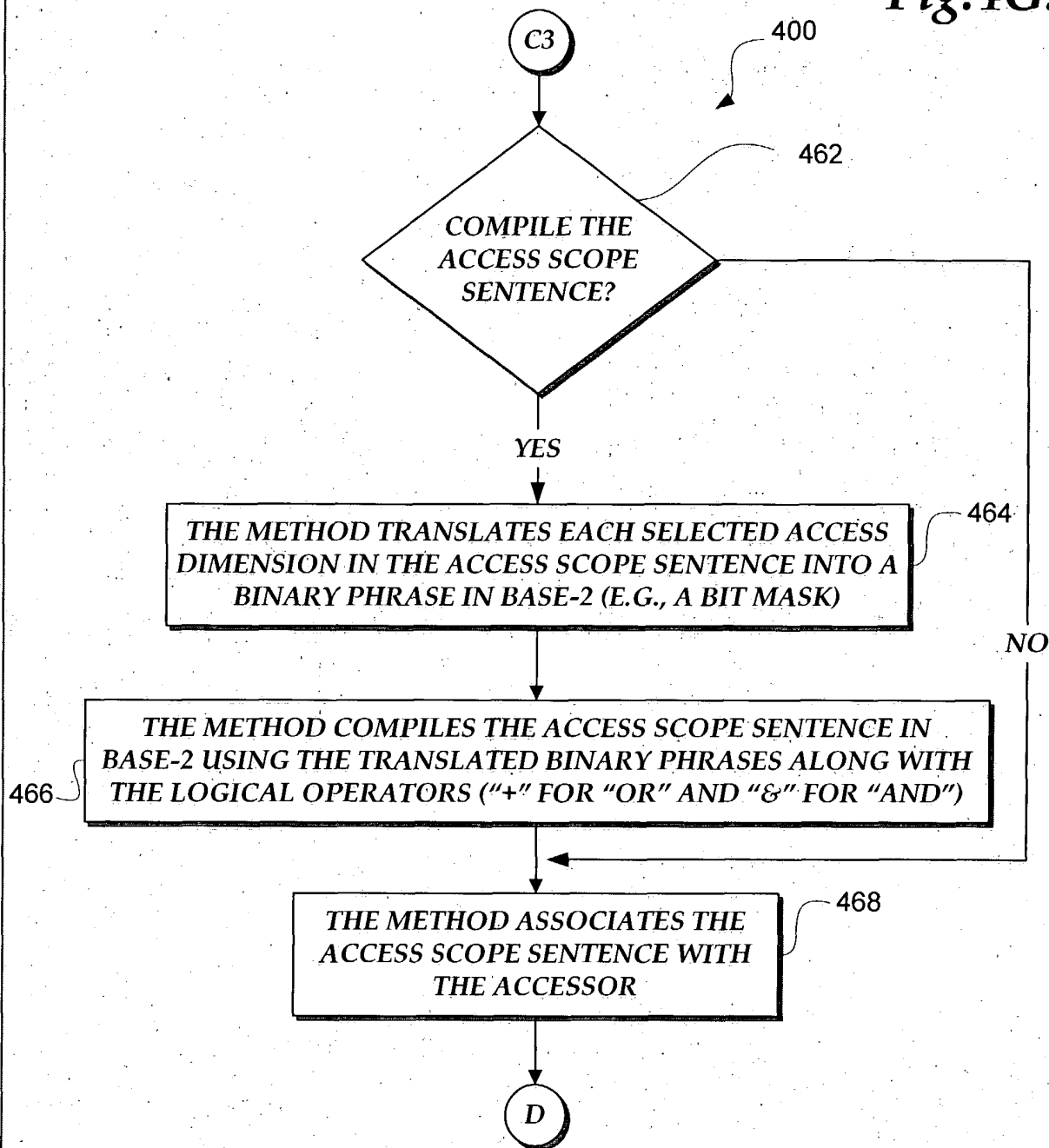


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Fig.4G.

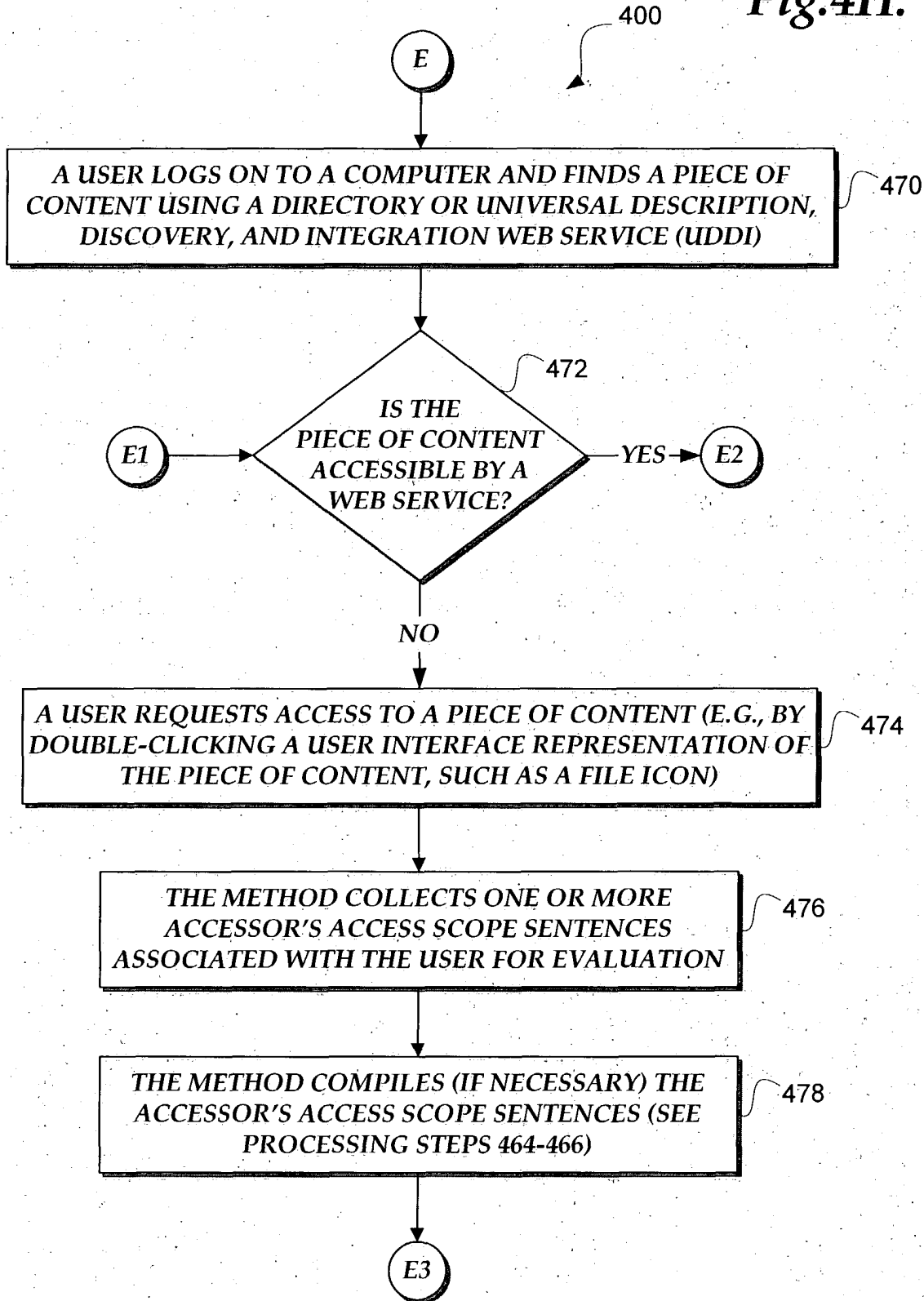


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Fig.4H.



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Fig. 4I.

400

E3

THE METHOD COLLECTS ONE OR MORE ACCESS
SCOPE SENTENCES ASSOCIATED WITH THE PIECE
OF CONTENT FOR EVALUATION

480

THE METHOD COMPILES (IF NECESSARY) THE
ACCESS SCOPE SENTENCES FOR THE PIECE OF
CONTENT (SEE PROCESSING STEPS 464-466)

482

IS THERE
AN ACCESS DIMENSION
NOT USED BY BOTH THE
ACCESSOR AND THE PIECE
OF CONTENT?

484

NO → E4

YES

486

THE METHOD SUPPLANTS THE MISSING BINARY PHRASE WITH A BINARY
PHRASE FILLED WITH 1'S (THE NUMBER OF 1'S CORRESPONDS TO THE
NUMBER OF MEMBERS IN THE ACCESS DIMENSION)

E4 →

EACH BINARY PHRASE OF THE ACCESSOR IS LOGICALLY
"ANDED" WITH EACH CORRESPONDING BINARY PHRASE OF THE
PIECE OF CONTENT, FORMING AN EVALUATED BINARY PHRASE

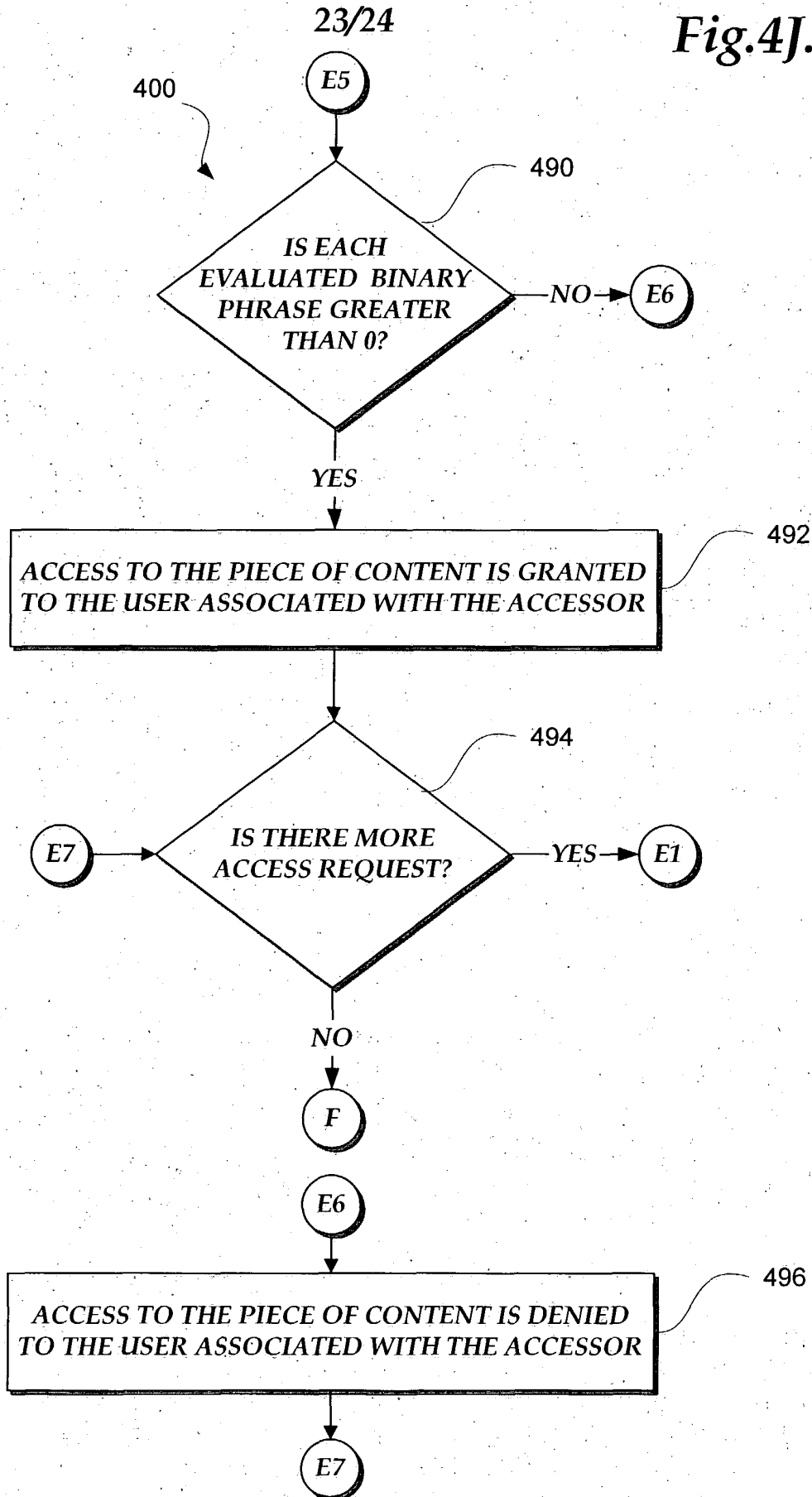
488

E5

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Fig.4J.



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Fig.4K.

400



**THE PIECE OF CONTENT USES UDDI TO FIND A
COMPILER WEB SERVICE TO COMPILE ACCESS SCOPE
SENTENCES (SEE PROCESSING STEPS 464-466)**

498

**THE PIECE OF CONTENT USES UDDI TO FIND
AN EVALUATOR WEB SERVICE TO EVALUATE
ACCESS (SEE PROCESSING STEPS 474-496)**

499

